

POLYMER CONTROL THROUGH CO-CATALYST

ABSTRACT OF THE INVENTION

Some properties such as dart impact strength, hexane extractables and resin stickiness of a polyethylene copolymer produced in a gas phase polymerization using a Ziegler-Natta catalyst are better controlled by regulating the ratio of aluminum from the co-catalyst to the polymer production rate. This enables one to improve properties such as dart impact strength and reduce hexane extractables by changing the amount of co-catalyst fed into the reactor.